Packet-Radio Digest   Thu, 5 Aug 93   Volume 93 : Issue 230

Today's Topics:
                        73's Decade of Packet
                   Automatic Packet Reporting System
                        CPM Packet Software
                Desqview & Baycom or Poor Man's Packet?
               Internet <-> packet gateway near San Franci
                               N0ARY
                   Poor Man's Packet Modem (2 msgs)
                  problems with BacPac modem and software

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 4 Aug 93 21:00:55 GMT
From: mnemosyne.cs.du.edu!nyx!lkollar@uunet.uu.net
Subject: 73's Decade of Packet
To: packet-radio@ucsd.edu

>In case a few of you missed it, the August '93 issue of 73 Magazine
>is featuring an anthology of 73 packet radio articles from 1983 to 1993

It's actually a bibliography, but that's not your fault. 73 used the wrong
term too. An anthology (as I understand it) is a *collection* of articles
rather than just a listing.

OK, I promise to stop acting like an English teacher. I wish they *did*
publish a real anthology.

BTW, I'm going to build that deviation meter... I've got the parts, now give
me some time!!
--
Larry Kollar, KC4WZK | I like CW, but that doesn't mean I think every ham
lkollar@nyx.cs.du.edu | should have to learn it.
        "You mean you came back from the dead, to tell me I'm *odd*?"

Date: 4 Aug 93 22:12:43 GMT
From: news-mail-gateway@ucsd.edu
Subject: Automatic Packet Reporting System
To: packet-radio@ucsd.edu

raymond.anderson@Sun.Com says:
> The APRS allows one to connect the NMEA-0183 output of a LORAN-C or
> GPS receiver to a packet system...

I once thought about a poor mans position display. After deciding that DME,
GPS, and LORAN were too expensive, I thought about simple triangulation. With
a programmable radio that tunes in a VOR, it can run through the navigation
channels and put the bearings into a table. Since all VOR's are known by their
latitude and longitude you can find your position. With this info you can
plot the VOR's and your route on a moving map. Taken a step further you could
broadcast your information over a common frequency:

        Registration *
        Type *
        Destination (ICAO)*
        Latitude (seconds)
        Longitude (seconds)
        Altitude (feet) *
        Heading (Magnetic)
        Ground Speed (Knots)

One mode could show various ranges and another could show targets within
five nautical miles and 5000 feet. The items marked with an asterisk are
entered by the operator, the others are calculated. The FAA could then
dismantle it's transponder system :-)

73, Steve N5OWK

Date: 5 Aug 93 08:24:18 GMT
From: news-mail-gateway@ucsd.edu
Subject: CPM Packet Software
To: packet-radio@ucsd.edu

>Anyone aware of any packet radio terminal emulation software for CP/M?
>I had read about some recently (the last 2-3-4 months), but misplaced
>the information. Any leads would be appreciated.

Hi, you may like to look in the wuarchive.wustlr.edu mirror archive.
This is what was teher this morning:

------- copy of /mirrors/cpm/packet/00-index.txt

NOTE: This list was created on Sat, 17 Feb 90 16:52:30 MST.
Some files may have been added or deleted since that date.
See file PD2:<CPM.FILEDOCS>AAAREAD.ME for additional information.

NOTE: Type B is Binary; Type A is ASCII

Directory: PD2:<CPM.PACKET>
 Filename   Type Length   Date   Description
==
DEDPK87.ARK   B   97499 870826   WA8DED ver 1.2 PK-87 packet firmware
DEDTNC1.ARK   B   44836 870826   WA8DED ver 1.2 TNC-1 packet firmware
DEDTNC2.ARK   B   60248 870826   WA8DED ver 1.2 TNC-2 packet firmware
MULRPT.LBR   B   34944 851124   Two port packet repeater - Xerox820
PBBSM100.ARK   B   25472 870125   No description available
RLI120.ARK   B   229800 870611   W0RLI MailBox/GateWay, version 12.0
RLI120.UPD   A   1854 870611   Update info W0RLI Packet BBS/Gateway

---- end of copy -----

I hope it may be of help.

Darren Hatcher - G7BKO
===
K.Darren Hatcher   = MSMail   : HATCHER,D (BIB3IP)
Bay 16   = X400   : /C=GB/ADMD=BT/PRMD=BT
First Floor, Phase 2   =   /PN=.D.HATCHER/O=BT PLC/OU=BIB3IP
BT Computer Centre   = WEB   : hatcher_d
Bibb Way,   = Packet   : G7BKO@GB7DXM
Ipswich, Suffolk   = Internet : hatcher_d@bt-web.bt.co.uk
IP1 2EQ, U.K.   =
===
Voice: +44 473 227332   = Data: +44 473 227786   = Fax +44 473 231727
===

Date: 4 Aug 93 19:38:19 GMT
From: ogicse!uwm.edu!vixen.cso.uiuc.edu!uxa.cso.uiuc.edu!btbg1194@network.ucsd.edu

Subject: Desqview & Baycom or Poor Man's Packet?
To: packet-radio@ucsd.edu

In article <23nif8$5n3@helle.fmi.fi> oh3njz@sumppu.fmi.fi (Seppo Pekonen) writes:
>VK5KET%VK5KET.AMPR.org@f860.n800.z3.fidonet.org (VK5KET@VK5KET.AMPR.org) writes:
>>In a message on <Jul 21 19:17>, b-banko@uiuc.edu (3:632/400@fidonet) writes:
>> b> I've gotten some recent mail about Desqview multi-tasking
>> b> software for
>> b> PC's... a 286 version for $80 and a 386 version for $130.
...
>> b> I have found that Poor Man's Packet won't run on my 20MHz 386sx
>> b> under
>> b> Windows 3.1, and I am trying to find out if anybody is running
>> b> Baycom
>> b> or PMP using Desqview as a multi-tasker. How well does it work?
>>Yep doing it here.. i run a baycom modem and DV with tpk and a phone bbs..
>>works fine no problems..
>
>Agree. I'm running the baycom with DESQview/X, and it's works just fine. With
>Windows, it's impossible to run L2.EXE, beacuse windows want's to handle every-
>thing (almost) ;-). If you want to run baycom in dvx-window, you should have
>at least 386/33MHz. However, if you don't need to use scaled windows, use the
>standard DESQview instead of DESQview/X. It's much faster. I tried to run
>baycom in /X in Compaq Contura 3/25c (386SLC/25MHz), it worked sure... but...
>slowly.
>
>Why I'm using the dvx; just for that, that I can edit text files and run
>i.e. 7PLUS at the same time, when I'm logged in to local packet-bbs.
>
>73 de Sepi oh3njz@oh3rba.fin.eu
>--
> Seppo Pekonen   OH3NJZ@OH3RBA.FIN.EU
> FMI P.O. BOX 503, SF-00101 HELSINKI
> tel +358 (9)0 1929 518 ! e-mail:Seppo.Pekonen@fmi.fi
> fax +358 (9)0 1929 539 !

Sepi,
Does Baycom handle its port monitoring using interrupts or polling?
PMP uses polling, so if Baycom uses polling, too, then I would have some
confidence that it would work with Desqview if Baycom does.

Thanks.

KB8CNE, Brad Banko
Champaign, Illinois

--
Brad Banko;   Univ of Illinois; b-banko@uiuc.edu

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======  Ich habe kein Bock mehr zu schreiben.  =======================
See one.  Do one.  Teach one.              73 de kb8cne @ n9lnq.il
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Date: Wed, 4 Aug 1993 21:48:15 GMT
From: tandem!vern!pat@uunet.uu.net
Subject: Internet <-> packet gateway near San Franci
To: packet-radio@ucsd.edu

> Someone told me that there is an Internet <-> packet gateway nearer to San
> Francisco than N0ARY, but he didn't have the details.  Anyone out there
> know?  N0ARY is slow for sending mailing to and from W6PW in San Francisco.

You could try my gateway, but I don't know how much quicker it would
be.  BTW - I am running N0ARY's bbs code so the interface would be the same.

        -pat          N6QMY @ N6QMY.#NOCAL.CA.USA.NA
```

```
Date: Wed, 4 Aug 1993 21:53:24 GMT
From: tandem!vern!pat@uunet.uu.net
Subject: N0ARY
To: packet-radio@ucsd.edu

: In <tom_taylor-280793174257@kip-27.taligent.com> tom_taylor@taligent.com (Tom
Taylor) writes:
:
: >Not only that, but the custom software he wrote runs on his own network of
: >Sun machines.  At least it did six months ago when he came and gave a
: >talk at the Apple ham radio club.
:
: Not only that, but Bob's BBS software is the best I have _ever_ seen.

I have to agree.  I have been running N0ARY's BBS code on my system, and from
the sysops side it has been a dream.  There are many functions and features
for the sysop that make running the BBS a pleasure rather then a chore.  I was
about ready to give up my BBS because it was getting to be such a pain.

        -pat  :-)              N6QMY @ N6QMY.#NOCAL.CA.USA.NA
```

```
Date: Wed, 4 Aug 1993 17:37:33 GMT
From: mdisea!mothost!merlin.dev.cdx.mot.com!news@uunet.uu.net
Subject: Poor Man's Packet Modem
To: packet-radio@ucsd.edu
```

In article <9308022012.AA15159@stlaurent.gel.ulaval.ca> taalebi@gel.ulaval.CA
(Ali Taalebi) writes:
>
>Could someone please point me to the name and issue number of the
>magazine which disscussed the
>   PMP modem
>sometime ago?
>
>--73's de N1HPP
>==
>   __   _ M. Ali Taalebinezhaad,
>   /   ) // The Canadian Institute
>   /- -/ // o   for Robotics and Intelligent Systems
> /   /_</_<_   Phone: (418) 656-2131 (Ext. 8026)
>   Fax: (418) 656-3594
>   Email: taalebi@gel.ulaval.ca
>   Addr.: Robotics & Vision Laboratory
>   Pouliot Bld., Room 00114
>   Elec. Eng. Dept., Laval Un.
>   Quebec, PQ, G1K-7P4, Canada
>==
>
The article appeared in the August 1991 edition of 73 Magazine. The associated
software required is avaiable from the 73 magazine BBS. The bbs telephone
number
has been changed since then. For the correct number look in a current issue .
I built one and it works very well

73
Pete

Date: Wed, 4 Aug 1993 21:32:05 GMT
From: sdd.hp.com!vixen.cso.uiuc.edu!newsrelay.iastate.edu!news.iastate.edu!
jvp@network.ucsd.edu
Subject: Poor Man's Packet Modem
To: packet-radio@ucsd.edu

In <1993Aug4.173733.6769@merlin.dev.cdx.mot.com> Curley_Pete@msm.cdx.mot.com
writes:

>>Could someone please point me to the name and issue number of the
>>magazine which disscussed the
>>   PMP modem
>>sometime ago?

The mac version of this (PacketMac Modem - PMM) was covered in the
October 1992 issue of 73.

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+--+
| Jim Van Peursem - Dept of EE and CprE - Iowa State University |
| Ames, IA 50011 - internet: jvp@iastate or tools1.ee.iastate.edu |
+--+

Date: Wed, 4 Aug 93 19:45:35 GMT
From: swrinde!cs.utexas.edu!math.ohio-state.edu!sol.ctr.columbia.edu!news.kei.com!
ub!galileo.cc.rochester.edu!uhura.cc.rochester.edu!ddrk_ltd@network.ucsd.edu
Subject: problems with BacPac modem and software
To: packet-radio@ucsd.edu

I have a BayPac modem that works fine with the testing software that comes
with it, but doesn't transmit when used with a terminal program like
baycom 1.4, 1.5. In baycom, i think it receives fine (in my area I can't
receive any packet, yet) but when there is noise, the indicator on the
left hand side goes from QRV to RECV, but when I set the program to
:beacon 1, on screen it transmits, but my radio's xmit lite doesn't light
up. Is it a software problem? What can I do?
Please help soon!

Thanks in advance,

Dave, N2RQU
--

David J Dorkin,   N2RQU

Voice: (516)239-2959

Date: Tue, 3 Aug 93 17:43:24 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!magnus.acs.ohio-
state.edu!math.ohio-state.edu!sol.ctr.columbia.edu!destroyer!cs.ubc.ca!alberta!
adec23!mark@network.ucsd.edu
To: packet-radio@ucsd.edu

References <1865@arrl.org>, <25257@acorn.co.uk>,
<1993Jul31.182526.21638@ke4zv.uucp>edu
Subject : Re: Packet can't work

gary@ke4zv.uucp (Gary Coffman) writes:

>You've identified the core problem, round trip time. Conceptually,
>it's simple to implement CD. You just keep a FIFO of the last few
>bits you transmitted and match them against the bits being received
>from the repeater. If they're the same, keep transmitting, if they're
>different, stop. The problem, as you've noted, is that stations at
>different distances from the repeater have different round trip
>times.

This is *not* a big problem, since the cell of coverage of a repeater is
generally metropolitan in size. However, most digital repeaters do bit
regeneration, thus the transmitted bit rate may not be exactly the
same as the received bit rate (the reason a FIFO exists in the
repeater's bit regenerator is to allow for variations in clock rates).

I *tried* to implement a system of matching transmitted with received
back from the repeater streams to determine if a KISS based TNC was being
collided with, and a sliding window (to find a match) is not that hard to do!
I never finised the project for the same reason many never finish (the
thought experiment was done, why finish? and not enough money to afford
a set of cans for 2M or 70cm at the time).

>This requires a synchronizing adjustment be made.

why, computers can do it, why should you have to?

Ciao -- Mark

End of Packet-Radio Digest V93 #230
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